

Amendments to the Specification:

Please amend numbered paragraph 1, as shown below:

This application claims priority of U.S. Provisional Application No. 60/272,156, Filed: Feb. 28, 2001 and U.S. patent application Ser. No. 10/085,372, Filed: Feb. 28, 2002, now issued as U.S. Patent 6,716,387B2, issued April 6, 2004 and reissued as U.S. Patent 6,716,387C1 on June 12, 2007.

Please amend numbered paragraph 23, as shown below:

Runner 14 is preferably fluidly connectable to sub-runner 18 at its ejection end 17. In the preferred embodiment, control valve 25 includes a hydraulically controlled piston 28. Piston 28 preferably has a control surface 29 exposed to fluid pressure in a hydraulic cylinder 26, and a substantially cylindrical end portion 31. Piston 28 has an extended position at which end portion 31 blocks an open end 23 of sub-runner 18, blocking fluid communication between sub-runner 18 and runner 14, thereby blocking fluid communication between cavity 20 and reservoir 16. Piston 28 also has a retracted position at which end portion 31 does not block open end 23 and therefore allows fluid communication between sub-runner 18 and runner 14, and can be moved between its two respective positions by controlling the hydraulic pressure supplied to chamber 26. If desired, a biasing spring (not shown) may be positioned in chamber 26 to bias piston 28 toward its extended position. Action of the piston 28 may be remotely controlled via a preprogrammed controller such as with a Direct Logic[®] (programmable controller) 205 CPU signaling a Proportionair[®] BBZ servo control valve to provide a pneumatic control signal. The piston may also be selectively activated to partially open end 23 to control the flow into reservoir 16.

Please amend numbered paragraph 31, as shown below:

It should be appreciated that the fluid may be injected via pin 24 prior to opening of valve 25, then halted, allowing the built up pressure to drive plastic from the mold when valve 25 is opened. Alternatively, fluid may be injected before opening valve 25, as well as after the valve is opened. Related schemes could be undertaken wherein valve 25 is operated to allow an initial pressure buildup (held closed), followed by a pressure drop

(opened), then followed by another build (closed). A preferred embodiment is to utilize a gas controller utilizing a pressure regulator such as a GO DL-57 regulator, which when combined with a servo controller such as a Proportionair [[®]] BBZ, can maintain a pre-selected pressure as the plastic cools, and or injected fluid maintains the pressure as the reservoir is opened. The various possible fluid injection schemes are available for different mold and plastic characteristics and considerable variation on the presently disclosed processes is possible without departing from the scope of the present invention. For instance, any of the fluid injection events could be undertaken with either a gas or a liquid, for instance water. The plastic injectors, mold cavities, runners and cylinders are all known in the art. Suitable injection pins such as Applicant's ANP series gas pin or multi fluid pin are commercially available, as are fluid injection controllers, such as Applicant's LGC series gas assist controller, which can adjust the pressure and timing of fluid introduced into the chambers.